

**Amendments to the Specification**

Please amend the specification from page 1, line 11 to page 1, line 32 as follows:

**1. ~~Technical Field.~~**

~~[0001] This invention relates generally to a navigation system, and more particularly to the generation of standard heights with a satellite navigation system.~~

**2. Background of the Invention.**

~~[0002] The height generally depicted on topographic maps and physical markers is the standard height  $H$ . The standard height  $H$  indicates the height above mean sea level, and is determined by geodetic leveling. The standard height system may sometimes be referred to as the orthometric height system or the normal height system.~~

~~[0003] The National Geodetic Survey determines heights for the standard height system in the United States by taking physical measurements and using geodetic leveling. Government agencies in other countries perform similar functions, such as the State Survey Authority of the Federal State of Baden-Württemberg (Landesvermessungsamt Baden-Württemberg) in Germany, and the Federal Office of Topography (Bundesamt für Landestopographie) in Switzerland.~~

~~[0004] Heights obtained from satellite navigation systems, such as the Global Positioning Systems (GPS) of the United States or the Global Orbiting Navigation Satellite System (Glonass) of the Russian Federation, utilize a different height system than those obtained with geodetic leveling. Satellite navigation system data is generally processed to obtain ellipsoidal height  $h$ . An ellipsoidal height  $h$  is a height above or below a simple ellipsoid model of the Earth, such as the World Geodetic System 1984 (WGS84) ellipsoid model of the Earth.~~